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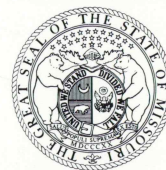
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1992 ANNUAL REPORT

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ELERA
Environmental Improvement and Energy Resources Authority



20TH ANNIVERSARY



*David R. Goller
Chairman
EIERA*

Dear Friends:

I am proud that I have participated in some of the accomplishments that have shaped the 20-year history of the Missouri Environmental Improvement and Energy Resources Authority (EIERA).

During my five-year association with the Authority, I have observed the EIERA's dedication and commitment to Missouri's citizens and the state's natural resources.

In observance of the EIERA's 20th Anniversary, the staff conducted a number of activities. An open house was held in June, 20-year designations were printed on agency letterhead and anniversary mugs, and attractive exhibits were displayed at the Missouri Waste Management Conference and the Missouri State Fair.

The highlight of the year was an anniversary dinner held in honor of former board members; the board members were presented with letters of appreciation in the form of a scroll. The dinner's keynote speaker was James Smith, Executive Director of the Council of Infrastructure Financing, Washington, D.C. Mr. Smith addressed "Finance and the Environment: The Forecast for the Future."

The EIERA's long-range agenda, as in the past, will focus on environmental protection with energy efficiency emerging as a primary issue. There will be a continued commitment to create low-cost financial packages for cities and counties, conduct statewide studies on resource management, and provide financial assistance for innovative environmental programs and demonstration projects.

Thanks again for your support.

Sincerely,

A handwritten signature in dark ink, appearing to read "David R. Goller".

David R. Goller
Chairman



Members of a 4-H group stencil Springfield storm drains as a reminder that the improper disposal of household hazardous wastes — paint, antifreeze, motor oil, and pesticides — can seriously damage water quality. The program is sponsored by EIERA's Household Hazardous Waste Project.

The 1992 Annual Report of the Environmental Improvement and Energy Resources Authority (EIERA) is a public record of the programs administered during fiscal year July 1, 1991, through June 30, 1992.

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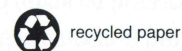
Cover: The sun's soft, warm rays sneak through the tall trees and land gently on the trickling waters of Little Sugar Creek. This beautiful scene was photographed from the Highway 147 Bridge in Cuivre River State Park near Troy.

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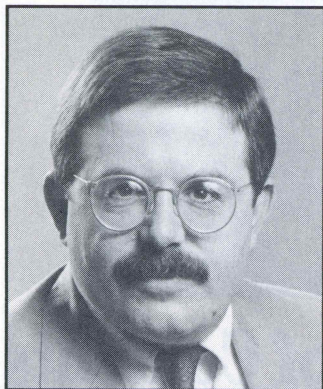
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This annual report is printed on recycled paper.



Director's Dialogue



Stephen Mahfood
EIERA Director

On December 1, 1971, State Representative Robert H. Branam walked down to the office of Legislative Research and, with a lot of fanfare, pre-filed House Bill 1041.

In 1972, the 76th General Assembly passed House Bill 1041, which established the State Environmental Improvement Authority (EIA). Subsequent legislation added new responsibilities that included development of a Statewide Energy Study and Missouri's Solid Waste Management Report. More recently, the focus has been coordinating the Market Development Program.

For the past 20 years, the Environmental Improvement and Energy Resources Authority (EIERA), through its board of directors and staff, has provided support for environmental and resource management activities.

In the 1970s and early 80s, the EIERA provided bond financing to many of Missouri's major companies for the purchase of pollution control equipment and to fund facility improvements for wastewater treatment systems.

During the past 10 years, the EIERA has demonstrated a unique ability to develop and support projects that have a statewide impact; whether it is producing an energy video for junior high students, providing technical and water quality assistance to Missouri's rural communities, or educating homeowners about the safe management and disposal of household products.

In reference to statewide research projects, the Resource Recovery Feasibility and Planning Study (1987) has been a catalyst for implementing important legislation. Since 1987, these laws have had a tremendous impact on the development of solid waste management initiatives.

The recommendations of the Statewide Energy Study will make Missouri more energy efficient, creating an economy which can generate jobs while protecting the environment.

Since its inception, the EIERA has developed innovative low-cost financial packages to help Missouri communities meet environmental objectives.

The State Revolving Fund was initiated

in 1987 and completed in 1990; it provides financial assistance for cities, counties and districts for construction of wastewater treatment facilities. In 1991, it was ranked as one of the top five programs in the nation.

It is somewhat ironic that monies targeted for the Authority's Market Development Program are generated from landfill disposal fees—a recommendation of EIERA's 1987 Resource Recovery Study. The program, which was mandated by Senate Bill 530, offers financial assistance to businesses and organizations that develop marketable end-products from waste or discarded materials. In 1992, 16 businesses and organizations received more than \$700,000 for market development initiatives. Nationally, the Missouri Market Development Program is regarded as an innovative project that blends economic issues with environmental protection.

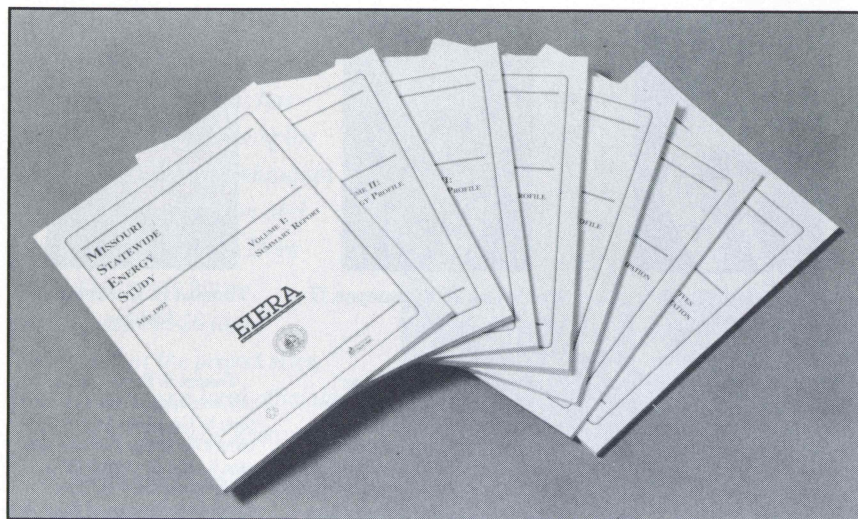
The EIERA has initiated numerous activities at the local level. Probably none of these projects have had as much impact as the Household Hazardous Waste Project (HHWP). Established in 1986 as a local group, the nationally-acclaimed program has expanded into a statewide organization that provides information to individuals, schools, and groups about the safe management, storage, and disposal of household chemicals and products; HHWP is administered through a cooperative agreement with the University of Missouri and Lincoln University Extension Office. On two separate occasions, the EIERA director and HHWP staff have been guests at the White House Rose Garden to receive awards from the President of the United States.

While the EIERA is proud of its past accomplishments, the staff looks forward to several challenges.

The implementation of the recommendations of the Statewide Energy Study is the primary task. These recommendations will not only introduce new energy alternatives that will increase efficiency, but the recommendations will also have a long-range impact on Missouri's economy and environment.

I know we can count on your input and continued support in meeting our objectives.

EIERA — Overview and Purpose



Missouri's energy study, a seven volume, 900-page report, emphasizes alternatives to increase energy efficiency; the report also shows how efficiency is directly related to job creation and environmental protection.

In 1972, the EIERA received a one-time appropriation of \$225,000. Over the years, these monies have been leveraged into \$2 billion for environmental financings and grants totaling more than \$3 million to support projects, research, and educational and technical assistance.

The Environmental Improvement and Energy Resources Authority (EIERA) is an independent, self-supporting agency, created in 1972 by the Missouri legislature. The EIERA's mandate is to protect Missouri's environment, develop energy alternatives, and promote economic development. The Authority's mandate is broad and includes financing projects, conducting research and providing technical assistance.

Initially, the EIERA was housed in the Bureau of Consumer Affairs, Regulation, and Licensing, which is now the Department of Economic Development. In 1983, a legislative amendment transferred the Authority to the Department of Natural Resources.

The EIERA authorized its first bond project in December 1973 and since that time has issued tax-exempt bonds, notes and commercial paper in excess of \$1.9

billion. The bonds are repayable solely by the entities that construct the projects; the state of Missouri does not guarantee repayment. Since the Authority issues the bonds and because the bonds meet certain requirements in the Internal Revenue Code, interest from the bonds is exempt from federal income taxes.

The EIERA offers traditional financial assistance through many types of tax-exempt and taxable financing. These programs are regulated by federal and state laws and may consist of issuing **taxable bonds, floating or fixed-rate notes, short-to-intermediate term bonds, and long-term bonds.** Other types of assistance may include **commercial paper and pooled financings.**

In cooperation with the Missouri Clean Water Commission, the U.S. Environmental Protection Agency (EPA), and other state agencies, the EIERA helped establish the State Revolving Fund (SRF). The SRF provides loans to communities and districts for construction of wastewater and sewage-treatment projects.

The Missouri Public Service Commission and the EIERA also developed two new assistance programs. The first program offers low-cost bond financings to private water companies for construction of new

water systems, and the second program provides emergency loans for short term projects.

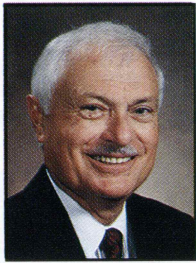
Additionally, the EIERA, the Department of Economic Development and the Department of Natural Resources are coordinating market development assistance to expand and support recycling and recovery.

The EIERA continues to develop alternative financing and assistance programs, including direct loans, feasibility studies, and small project grants. Along with direct financial assistance provided at the state level, Missouri's application of state law exempts air and water-pollution control equipment from the sales/use tax.

In addition to the state's efforts to reduce the cost of environmental compliance, Missouri's private financial institutions are encouraged to give special consideration to loans for pollution-control equipment, facilities, and projects.

In reference to organizational structure, the EIERA is not a traditional state agency and does not have regulatory powers. It has been the state's advantage to have an independent organization that responds to financial priorities for energy and environmental projects.

Members of the EIERA

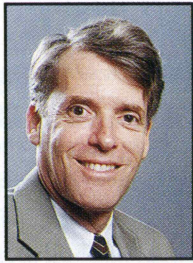


David R. Goller
Chairman

David Goller was appointed to the Authority in August 1987 by Gov. John Ashcroft. He was elected board chairman in 1991 and formerly served as secretary-treasurer from 1987 to 1991.

Goller is a partner in the Jefferson City law firm of Goller & Associates PC. He is a member of the American, Missouri, and Cole County Bar associations.

Involved in numerous community activities, Goller is a director for the Exchange National Bank, Jefferson City. He is a former board member for Memorial Community Hospital, American Red Cross, Cole County Planning Commission, and Riverview Cemetery Association.



Kenneth S. Kranzberg
Vice Chairman

Kenneth S. Kranzberg was appointed to a three-year term by Gov. John Ashcroft.

Since 1978, Kranzberg has been president of the St. Louis-based Northwestern Bottle Co. Northwestern is the largest distributor of glass and plastic bottles in the United States, with offices and warehouses in 12 cities. He is past president and board chairman for the National Association of Container Distributors.

A graduate of the College of William and Mary in Virginia, Kranzberg also served in the U.S. Army as a Second Lieutenant.

Kranzberg is active in civic and community activities and served as a board member for several St. Louis-area companies and charitable institutions. He, his wife, and two daughters live in St. Louis County.



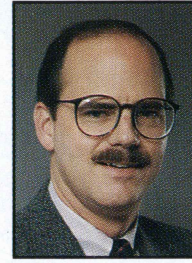
John W. Boyd
Treasurer

John Boyd was appointed to a two-year term by Gov. John Ashcroft in September 1991. Authority members elected him treasurer the same month.

In 1976, Boyd was a key figure in the formation of Medical Defense Associates, a medical malpractice insurance company. Since 1988, he has marketed insurance and securities through Boyd Insurance and Financial Services.

In 1992, Boyd was appointed to the Board of Trustees of Southwest Baptist University, Bolivar. He is a past member and former chairman of Missouri Health and Education Facilities Authority. Boyd also chaired the Committee to Preserve Health Care and served on the Commission for the Future of Services to Children and Families.

Boyd studied accounting and business at Springfield's Draughon Business College. He also studied accounting and business administration at Southwest Missouri State University. He and his wife have two children and reside in Clever.



Frederick H. Riesmeyer, II
Secretary

Frederick Riesmeyer is an attorney in the Kansas City law firm of Spradley & Riesmeyer.

Riesmeyer was appointed to a three-year term by Governor John Ashcroft. He was elected by Authority members to serve as secretary.

A political science major, Riesmeyer earned a degree from the University of Denver and received a juris doctorate degree from the University of Missouri-Kansas City.

A published writer, Riesmeyer co-authored an article for the *Oklahoma Law Review*, "The Development of Alternative Energy Sources: A Legal Policy Analysis."

Riesmeyer is active in several community organizations and is a member of the Truman Medical Center Board of Governors and board president of the Sherwood Center for autistic children. He is a member of the Kansas City, Missouri, and American Bar associations.



Thomas B. Burkemper
Member

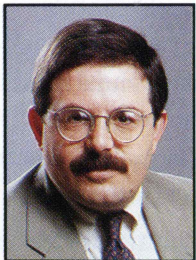
Thomas B. Burkemper, attorney, was appointed to a two-year term by Gov. John Ashcroft. He owns a farm near Troy and operated a dairy farm until 1978. In 1989, he and his wife, Ellen, planted 10,000 trees on their property.

In 1965, Burkemper established his law practice in Troy. His clients include the Lincoln County Commission, Lincoln County Public Water Supply District No. 1, Breavor Drainage District, Winfield Drainage District, and Bank of Old Monroe.

Burkemper received Master degrees from Lindenwood College and Washington University. He is presently a candidate for a Master's degree at St. Louis University, where he received his Bachelor of Science and juris doctorate degrees. He is a member of the Missouri Farm Bureau, and the Missouri and American Bar Associations.

Burkemper and his wife have four children; they attend Sacred Heart Church, where he is an ordained deacon.

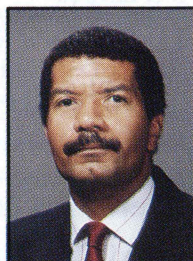
EIERA Staff



Stephen M. Mahfood
Director



Tom Welch
Deputy Director



Kenneth Seeney
Asst., Planning & Public Affairs



Denise L. Evans
Administrative Assistant



Marie Colvin
Administrative Assistant



Pamela Mueller
Secretary

Wright County . . .

Wright County officials are completing the fourth year of a five-year project that has helped dairy farmers employ waste management techniques that reduce soil erosion and protect water quality. More than 435 people have participated in 26 tours conducted at the project sites and farmers and local officials from as far away as Arkansas and Illinois have visited the Wright County project.



. . . Wetlands



This constructed wetlands is located in Shelbyville, a community of 600, about 30 miles northeast of Macon. The community operates a two-stage lagoon that discharges into the wetlands; staff members from the Missouri Assistance Project proposed modifications that improved water quality and helped city officials comply with state regulations.

The Year in Review

The Missouri Environmental Improvement and Energy Resources Authority (EIERA) was established in 1972 by the Missouri legislature.

The EIERA has expanded from a bond-financing entity to a nationally recognized agency that addresses environmental and energy issues.

In the past year, the EIERA focused its efforts on implementing the Statewide Energy Study and promoting energy efficiency. Additionally, targeting and developing markets for recycled materials was a top priority.

New Projects

The Authority awarded a \$5,000 planning grant to Crowder College in Neosho. The monies will be used to develop the Missouri Alternative and Renewable Energy Technology (MARET) Center. The MARET Center

will conduct alternative energy research, and act as a demonstration unit for renewable energy applications.

On-going Projects

The nationally-acclaimed Household Hazardous Waste Project (HHWP) received another award during a ceremony in the White House Rose Garden. President Bush presented EIERA Director Steve Mahfood and Missouri Extension official Jerry Wade with The Presidential Environmental Conservation Challenge Award. The award was presented for the HHWP's outstanding efforts to educate Missouri citizens about the safe management and disposal of household products and chemicals. Also, there was an entry in the United States Congressional Record recognizing the EIERA.

The State Revolving Fund (SRF) provides low-cost loans to cities, counties, and districts for wastewater and sewage treatment projects. The SRF, which was established in

1990, has issued \$257 million in low-cost financings for more than 37 projects.

The Missouri Assistance Project (MAP) provides technical assistance to rural communities with populations under 2,000. When the program was initiated in 1986, the focus was water and wastewater treatment systems. Today, MAP staff members provide advice and assistance on water projects, solid waste management, waste district administration and coordination, and market development.

Staff Activities

The EIERA has enhanced its management expertise by hiring Evensen Dodge, Inc., a nationally recognized financial service company that has experience in energy and environmental issues.

The firm will provide input and offer recommendations to the EIERA board and staff on the feasibility and financial stability of proposed projects and programs.

In the coming year, the EIERA will continue the implementation of the energy study recommendations, coordinate the market development program, and maintain its financial assistance programs for wastewater and sewage treatment projects.



EIERA treasurer and board member John W. Boyd (kneeling), former board member H. Dwight Douglas, and Crowder College official Dan Eberle (white shirt) inspect a solar-powered vehicle. Boyd and Douglas were on campus to participate in a press conference announcing the establishment of the Missouri Alternative and Renewable Energy Technology (MARET) Center.

Projects Financed in Fiscal Year 1992

Bond or Bond-Related Financings

Project	Location	Amt. Financed
Union Electric Company	St. Louis	\$ 42,585,000
State Revolving Fund (Belton, O'Fallon & Cape Girardeau)	various locations	\$ 13,550,000
State Revolving Fund (MSD)	St. Louis	\$ 85,000,000
St. Louis County Water Company	St. Louis	\$ 25,000,000
Raytown Water Company	Raytown	\$ 3,000,000
Tri-County Water Company	Jackson, Cass & Lafayette Cos.	\$ 8,365,000
Middlefork Water Company	Maryville	\$ 2,000,000
State Revolving Fund Pool, Multiple-Participants (26)	various locations	\$ 48,295,000
TOTAL:		<u>\$227,795,000</u>

Project Grants and Financial Assistance

Project	Location	Amt. Financed
MARET Center (Crowder College)	Neosho	\$ 5,000
Household Hazardous Waste Project	Statewide	\$ 131,206
Missouri Assistance Project	Statewide	\$ 173,450
*Wright County Soil and Water Conservation District	Wright County	\$ 70,095
Market Development Program	Statewide	<u>\$1,000,000</u>
TOTAL		<u>\$1,379,751</u>

*Project continues to be funded from Fiscal Year 1991

Energy, Economics, and the Environment



In Missouri, 41 percent of the energy consumed is spent on transportation — cars, trucks, trains, and planes. Initiatives listed in the Statewide Energy Study recommend alternatives to conventional transportation and development of more fuel-efficient automobiles. Pictured in the background, near Lambert Airport, is an overpass built for St. Louis' \$350 million light rail train.

"Energy is the thread that is woven throughout our society. It keeps us warm in the winter and cool in the summer. It powers our automobiles and runs our factories and businesses . . ."

This is the introductory statement to the Missouri Statewide Energy Study. It summarizes the importance of energy to Missouri.

Last June, the EI ERA staff released the seven-volume, 900-page report. It was completed after 18 months of conducting research, focus group meetings, public forums, interviews and staff discussions with energy and environmental consultants.

The overall theme of the report is that energy efficiency has a positive impact on the economy and the environment.

"The implementation of energy efficient measures will create new jobs," said David Goller, Chairman of the EI ERA. "At the same time, environmental protection will be enhanced by adopting energy alternatives that will reduce the need for fossil fuels."

Annually, Missourians spend approximately \$9.7 billion on all forms of energy, which represents about 11 percent of their entire personal income.

"To put that in other terms, for every dollar you earn, 11 cents pays for energy bills," Goller said.

The report listed eight initiatives, which are key position statements that focus on short-range and long-range goals. Two of the eight initiatives are summarized below.

Increase the efficiency of residential and commercial buildings.
"Missouri's buildings are less efficient than

the national average," said Kenneth Kranzberg, Vice Chairman of the EI ERA. "The study recommends a standard building code for residential units and commercial buildings."

Increase the efficiency of the transportation sector. "Transportation accounts for 41 percent of the state's energy bill," Kranzberg said. "We need to expand opportunities for more efficient transit alternatives, such as buses and trains, and improve the efficiency of vehicles."

The proposed Energy Futures Coalition is a key element in the implementation of the energy study's initiatives. The governor will appoint the coalition members.

"The coalition is an independent group of individuals, businessmen, and government officials," Goller said. "The coalition will provide input on the study's recommendations and monitor the progress of the state energy program."

Missouri Markets

The next time you drive to the store to purchase bread and milk or take your children to school, don't be concerned but there may be **glass in the roadway**. That's right glass, in it, not on it!

A process developed by the University of Missouri, Rolla, uses recovered glass (crushed) as a substitute for aggregate in paving materials for road construction. The glass and asphalt mixture has been demonstrated in other cities where road crews use it for street repair and also pave roads in residential areas.

Last year, a "glasphalt" demonstration strip was laid on Phelps County Highway V, three miles east of Rolla. A pamphlet, "Glasphalt Handbook" is being prepared for publication and will be distributed to street and road crews and other companies in the road construction business.

The Missouri Market Development Program played a key role in the development of the glasphalt process. A \$49,433 award was issued to Missouri Enterprise to assist

in the development of the project. Missouri Enterprise is headquartered on the University of Missouri-Rolla campus.

The Missouri Market Development Program was initiated in 1992 to help develop the recycling infrastructure. It is administered by the Environmental Improvement and Energy Resources Authority (EI ERA) in cooperation with the Department of Natural Resources and the Department of Economic Development.

The program was mandated in the 1990 Missouri Solid Waste Management Law, Senate Bill 530. The \$1 million allocation for the program is generated from a landfill surcharge fee and is expected to continue through 1997, upon appropriation by the state legislature.

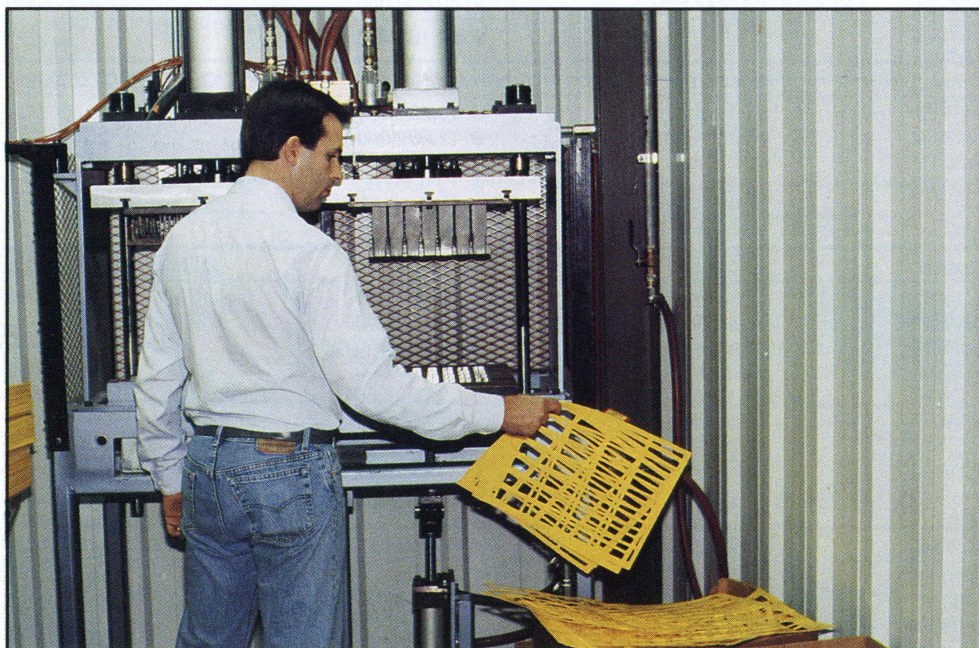
"There is a new emphasis on recycling and resource recovery," said David Goller, Chairman of the EI ERA. "The new recycling infrastructure creates jobs and business opportunities by adding value to recovered materials."

The specific goal of the Missouri pro-

gram is to develop markets for recovered materials. As part of the program's financial assistance kick-off, a competitive application process was offered in April. A total of 120 applications were received seeking \$11 million in funds. Seventeen enterprises were selected to receive more than \$700,000 in assistance for a variety of projects. Project requests ranged from \$8,000 to \$92,000.

In addition to providing direct financial assistance, the program conducts promotional campaigns, and offers technical assistance and educational materials to stimulate market development initiatives.

Other activities related to the Market Development Program are being planned to further assist Missouri communities. "These plans include the development of a Public/Private Coalition of business and government leaders to direct program activities and a statewide "Buy-Recycled" Campaign to stimulate demand for recycled products," said Kenneth Kranzberg, Vice-Chairman of the EI ERA.

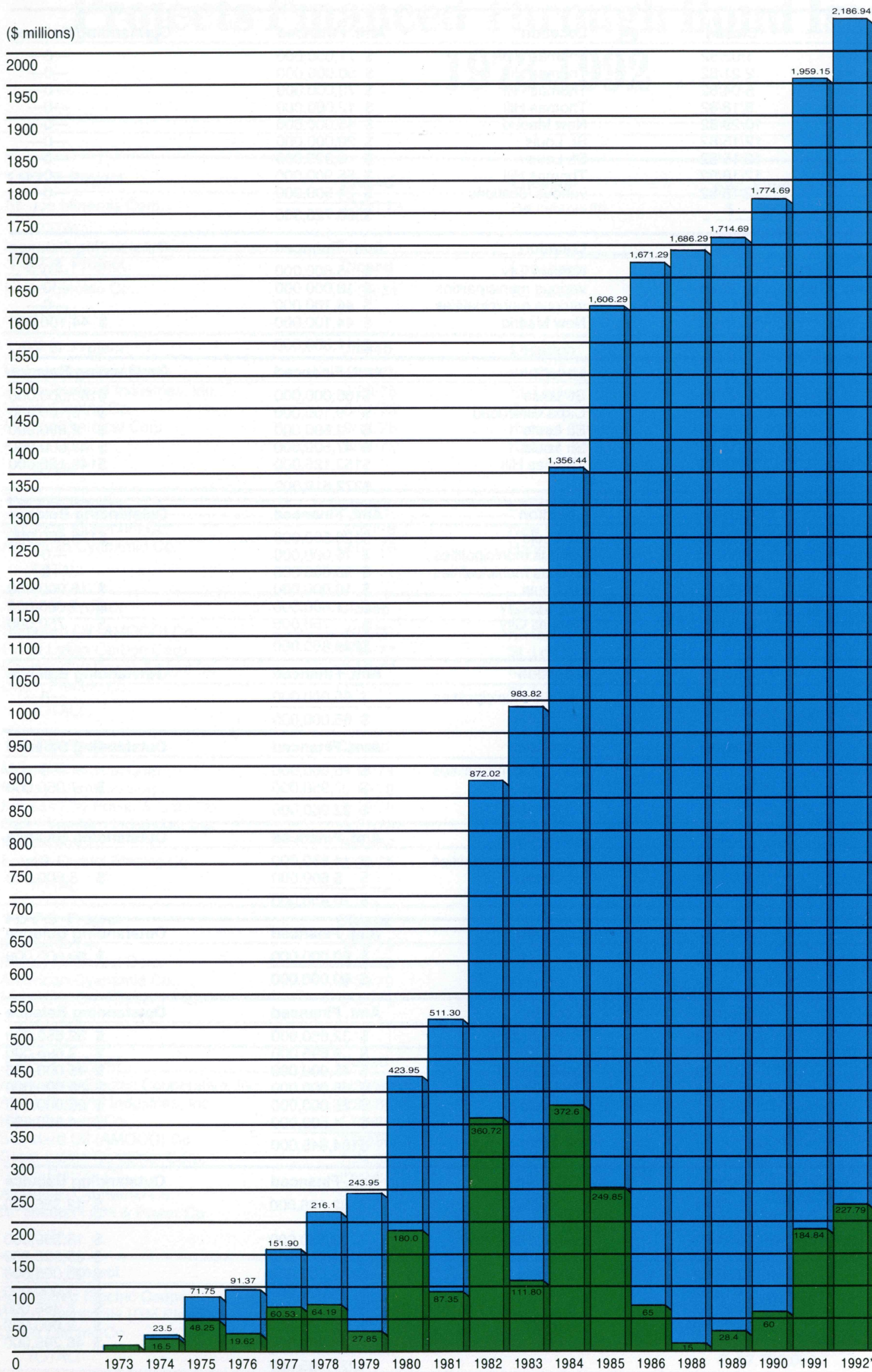


Mark Greer, general manager at Versa-Tag Inc., in Cuba, stacks used plastic sheets that were "punched" to make plastic key holders. Versa-Tag received a \$8,280 award from the Missouri Market Development Program to purchase a grinder. The used plastic sheets are ground and shipped back to the Indiana manufacturer; the granules are processed into new plastic sheets. Since the grinder was purchased, officials at Versa-Tag estimate that 32,000 pounds of plastic has been diverted from a local landfill.

Projects Financed Through Bond Issuances 1973-1992

1973 Project	Closed	Location	Amt. Financed	Outstanding Balance
St. Joe Minerals Corp.	12/20/73	Herculaneum	\$ 7,000,000	\$ 6,470,000
TOTAL:			\$ 7,000,000	
1974 Project	Closed	Location	Amt. Financed	Outstanding Balance
Union Electric Co.	4/25/74	St. Louis	\$ 16,500,000	—0—
TOTAL:			\$ 16,500,000	
1975 Project	Closed	Location	Amt. Financed	Outstanding Balance
Mobay Chemical Corp.	4/18/75	Kansas City	\$ 7,500,000	—0—
Alpha Portland Industries, Inc.	4/29/75	St. Louis	\$ 1,900,000	—0—
Union Electric Co.	6/11/75	St. Louis	\$ 22,000,000	—0—
Mobay Chemical Corp.	9/11/75	Kansas City	\$ 3,500,000	—0—
Armco Corp.	12/17/75	Kansas City	\$ 13,350,000	\$ 13,350,000
TOTAL:			\$ 48,250,000	
1976 Project	Closed	Location	Amt. Financed	Outstanding Balance
Noranda Aluminum Co.	4/27/76	New Madrid	\$ 10,500,000	\$ 10,500,000
American Cyanamid Co.	12/01/76	Hannibal	\$ 9,120,000	\$ 9,120,000
TOTAL:			\$ 19,620,000	
1977 Project	Closed	Location	Amt. Financed	Outstanding Balance
Standard Oil (AMOCO) Co.	2/16/77	Kansas City	\$ 6,450,000	\$ 6,400,000
Great Lakes Carbon Corp.	9/14/77	St. Louis	\$ 7,000,000	\$ 5,920,000
Kansas City Power & Light Co.	10/26/77	Kansas City	\$ 20,000,000	\$ 20,000,000
Union Electric Co.	11/01/77	St. Louis	\$ 27,085,000	\$ 27,085,000
TOTAL:			\$ 60,535,000	
1978 Project	Closed	Location	Amt. Financed	Outstanding Balance
Mobay Chemical Corp.	3/15/78	Kansas City	\$ 11,000,000	\$ 11,000,000
Mobay Chemical Corp.	5/10/78	Kansas City	\$ 825,000	\$ 825,000
Kansas City Power & Light Co.	7/19/78	Kansas City	\$ 31,000,000	\$ 31,000,000
Gulf + Western Industries, Inc.	8/01/78	Cape Girardeau	\$ 11,000,000	—0—
Monsanto Co.	8/03/78	St. Louis	\$ 2,370,000	\$ 2,370,000
Empire District Electric Co.	12/20/78	Kansas City	\$ 8,000,000	\$ 8,000,000
TOTAL:			\$ 64,195,000	
1979 Project	Closed	Location	Amt. Financed	Outstanding Balance
Monsanto Co.	1/09/79	St. Louis	\$ 10,250,000	\$ 10,250,000
Mobay Chemical Corp.	4/18/79	Kansas City	\$ 11,000,000	\$ 11,000,000
American Cyanamid Co.	8/30/79	Hannibal	\$ 3,700,000	\$ 3,700,000
Monsanto Co. (Queeny Plant)	9/06/79	St. Louis	\$ 2,900,000	\$ 2,900,000
TOTAL:			\$ 27,850,000	
1980 Project	Closed	Location	Amt. Financed	Outstanding Balance
Associated Electric Cooperative, Inc.	1/20/80	Thomas Hill	\$ 95,000,000	—0—
Alpha Portland Industries, Inc.	4/29/80	St. Louis	\$ 1,450,000	—0—
River Cement Co.	5/29/80	Festus	\$ 5,700,000	—0—
Standard Oil (AMOCO) Co.	7/22/80	Kansas City	\$ 8,300,000	\$ 8,300,000
Great Lakes Container Corp.	7/24/80	St. Louis	\$ 800,000	\$ 580,000
Union Electric Co.	8/20/80	St. Louis	\$ 60,000,000	\$ 60,000,000
American Cyanamid Co.	9/17/80	Hannibal	\$ 3,450,000	\$ 3,450,000
St. Joseph Light & Power Co.	12/30/80	St. Joseph	\$ 5,300,000	—0—
TOTAL:			\$180,000,000	
1981 Project	Closed	Location	Amt. Financed	Outstanding Balance
Associated Electric Cooperative, Inc.	3/19/81	New Madrid	\$ 36,000,000	—0—
City of Wentzville (GM Plant)	5/08/81	Wentzville	\$ 6,350,000	\$ 6,350,000
Union Electric Co.	10/08/81	St. Louis	\$ 45,000,000	—0—
TOTAL:			\$ 87,350,000	

1982 Project	Closed	Location	Amt. Financed	Outstanding Balance
Associated Electric Cooperative, Inc.	1/02/82	Thomas Hill	\$ 71,000,000	—0—
Associated Electric Cooperative, Inc.	2/21/82	Thomas Hill	\$ 50,000,000	—0—
Associated Electric Cooperative, Inc.	5/04/82	Thomas Hill	\$ 73,000,000	—0—
Associated Electric Cooperative, Inc.	8/18/82	Thomas Hill	\$ 12,000,000	—0—
Noranda Aluminum, Inc.	10/29/82	New Madrid	\$ 45,000,000	—0—
Union Electric Co.	12/15/82	St. Louis	\$ 20,000,000	—0—
Monsanto Co.	12/15/82	St. Louis	\$ 9,325,000	—0—
Associated Electric Cooperative, Inc.	12/16/82	Thomas Hill	\$ 55,900,000	—0—
Grant Anticipation Notes, 1982	12/16/82	various locations	\$ 24,500,000	—0—
TOTAL:			\$360,725,000	
1983 Project	Closed	Location	Amt. Financed	Outstanding Balance
St. Joseph Light & Power Co.	2/24/83	Kansas City	\$ 5,600,000	—0—
Community Development Program, 1983	10/27/83	various municipalities	\$ 18,000,000	—0—
Grant Anticipation Notes, 1983	11/17/83	various municipalities	\$ 44,100,000	—0—
Associated Electric Cooperative, Inc.	11/15/84	New Madrid	\$ 44,100,000	\$ 44,100,000
TOTAL:			\$111,800,000	
1984 Project	Closed	Location	Amt. Financed	Outstanding Balance
Union Electric Co.	6/21/84	St. Louis	\$160,000,000	\$160,000,000
Lone Star Industries, Inc.	7/17/84	Cape Girardeau	\$ 9,100,000	\$ 9,100,000
Monsanto Co.	11/08/84	St. Louis	\$ 2,890,000	\$ 2,890,000
Union Electric Co.	11/14/84	St. Louis	\$ 47,500,000	\$ 47,500,000
Associated Electric Cooperative, Inc.	12/15/84	Thomas Hill	\$153,125,000	\$149,120,000
TOTAL:			\$372,615,000	
1985 Project	Closed	Location	Amt. Financed	Outstanding Balance
Union Electric Co.	4/24/85	St. Louis	\$126,500,000	\$126,500,000
Community Development Program, 1985	6/11/85	various municipalities	\$ 15,000,000	—0—
Grant Anticipation Notes, 1985	7/09/85	various municipalities	\$ 90,000,000	—0—
Chrysler Corp.	10/30/85	St. Louis	\$ 16,000,000	\$ 16,000,000
Mobay Chemical Corp.	12/05/85	Kansas City	\$ 1,600,000	\$ 1,600,000
Reynolds Metal Co.	12/31/85	Kansas City	\$ 750,000	\$ 750,000
TOTAL:			\$249,850,000	
1986 Project	Closed	Location	Amt. Financed	Outstanding Balance
Grant Anticipation Notes, 1986	7/15/86	various municipalities	\$ 65,000,000	—0—
TOTAL:			\$ 65,000,000	
1988 Project	Closed	Location	Amt. Financed	Outstanding Balance
Community Development Note Program, 1988	6/15/88	various municipalities	\$ 15,000,000	—0—
Monsanto Company	11/02/88	St. Louis	\$ 7,950,000	\$ 7,950,000
TOTAL:			\$ 22,950,000	
1989 Project	Closed	Location	Amt. Financed	Outstanding Balance
Grant Anticipation Notes, 1989	3/02/89	various municipalities	\$ 14,850,000	—0—
St. Joseph Light & Power Co.	7/21/89	St. Joseph	\$ 5,600,000	\$ 5,600,000
TOTAL:			\$ 20,450,000	
1990 Project	Closed	Location	Amt. Financed	Outstanding Balance
Union Electric Co.	3/03/90	St. Louis	\$ 60,000,000	\$ 60,000,000
TOTAL:			\$ 60,000,000	
1991 Project	Closed	Location	Amt. Financed	Outstanding Balance
City of Springfield	10/25/90	Springfield	\$ 32,650,000	\$ 32,650,000
City of Lee's Summit	11/09/90	Lee's Summit	\$ 9,695,000	\$ 9,695,000
Noranda Aluminum, Inc.	12/07/90	New Madrid	\$ 45,000,000	\$ 45,000,000
Metropolitan Sewer Dist.	1/10/91	St. Louis	\$ 68,000,000	\$ 68,000,000
St. Louis Co. Water Co.	2/12/91	St. Louis	\$ 25,000,000	\$ 25,000,000
MO Cities Water Co.	2/12/91	various locations	\$ 4,500,000	\$ 4,500,000
TOTAL:			\$184,845,000	
1992 Project	Closed	Location	Amt. Financed	Outstanding Balance
Union Electric Co.	12/17/91	St. Louis	\$ 42,585,000	\$ 42,585,000
State Revolving Fund, 1991A (Belton, O'Fallon & Cape Girardeau)	1/14/92	various locations	\$ 13,550,000	\$ 13,550,000
State Revolving Fund, 1992A (MSD)	1/14/92	St. Louis	\$ 85,000,000	\$ 85,000,000
St. Louis Co. Water Co.	2/26/92	St. Louis	\$ 25,000,000	\$ 25,000,000
Raytown Water Co.	4/13/92	Raytown	\$ 3,000,000	\$ 3,000,000
Tri-County Water Co.	4/23/92	Jackson, Cass & Lafayette Cos.	\$ 8,365,000	\$ 8,365,000
Middlefork Water Co.	5/28/92	Maryville	\$ 2,000,000	\$ 2,000,000
State Revolving Fund Pool Multi-Participants (26)	6/17/92	various locations	\$ 48,295,000	\$ 48,295,000
TOTAL:			\$227,795,000	



Summary of Bond Issuances

Key

- Annual Figures
- Cumulative Totals

* Encompasses Fiscal Year
July 1, 1991 through
June 30, 1992



"Earth Kids" at Kansas City's Bryant Elementary School participate in the annual "butterfly launch." The butterfly launch is one of several environmental activities promoted by Principal Donna Burch. The students also conduct a "Cans of the Feather" event (recycling aluminum cans), plant trees on Arbor Day, and organize an exhibit displaying products made from recycled or discarded materials.

Missouri Department of Natural Resources

State Environmental Improvement and Energy Resources Authority



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